



(59) CHOIR Series

# SYMPHONY SERIES

DC Inverter Ductless  
Multi Zone Mini-Splits

FEATURES & SPECIFICATIONS

**YMGI Group**

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# WELCOME



## Introducing the Symphony CHOIR Multi Zone DC Inverter Mini Split Systems!

### Where Comfort and Performance Live in Perfect Harmony

Orchestras work in harmony to realize a perfect performance. YMGI's Symphony line of HVAC products offers high quality, affordable, energy efficient products and dedicated service to deliver performance provides quiet and clean heating and cooling to our customers. YMGI let's you enjoy healthier air, energy savings, ease of use, and peace of mind.

### Efficient, Reliable, and Stylish

YMGI products quickly and quietly cool and heat in the most efficient way possible. Most importantly, our systems are engineered and built with quality components that deliver reliability and longevity. Indoor and outdoor units have a contemporary style, a sleek silhouette, and an attractive neutral color. YMGI stands behind our products to ensure our customers are completely satisfied with their YMGI ownership experience.

### Meet the Symphony Conductor

YMGI designs, manufactures and sells air conditioners and heat pumps for use in residential, institutional, hospitality, light commercial, and industrial applications. As an environmentally friendly HVAC technology manufacturer, YMGI aims to design products that create harmony between our customers and their environments. Our HVAC and refrigeration products offer the best value available and are friendly to the environment, contractors, and end users.

### A Talented Ensemble Working in Perfect Harmony

YMGI's R&D team consists of highly trained and experienced professionals that seek to create new, and improve existing HVAC technologies. Our team tests designs and tests the components for quality and longevity. Our Quality Assurance team rigidly controls all aspects of part manufacturing, assembly, unit inspection and shipment.

## Discover *Maximum Comfort.*



Smart, Clean, Efficient and Affordable Heating and Cooling Solutions for Any Job, Large or Small.

**YMGI is the BEST Value in State-of-the-Art HVAC Products.**



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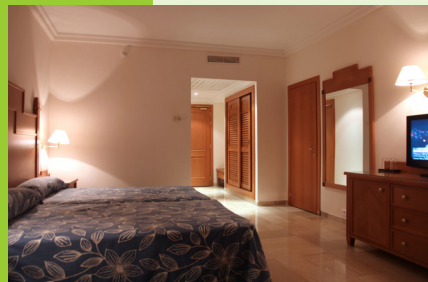
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### Meet the Symphony Performers

The YMGI Symphony Series includes CHOIR multiple zone mini-split systems.

The CHOIR consists of a single outdoor condensing unit and multiple indoor units. These systems are designed to heat and cool larger spaces, such as multi level homes, retail stores, gyms, libraries, hotels, galleries and restaurants.

The YMGI Symphony CHOIR systems utilize the latest inverter technology. They deliver just the right amount of cool or warm air, more efficiently than conventional central air systems. So, relax and enjoy the comfort and ease of use of YMGI's Symphony SOLO and CHOIR DC Inverter Series single zone and multiple zone systems.



# MINI SPLITS

## A Smart Heating And Cooling Solution

YMGI mini split systems are a great solution for new construction and retrofit or remodeling jobs. Easy, ductless installation means they're less expensive to install than central systems. They're ideal for replacing heating and cooling systems in older homes that were built with non-ducted heating systems, like hot water heat, radiant heat or space heaters, with no need to add ducts. The Symphony mini split ductless systems heat and cool quickly, quietly and efficiently.

Mini splits are ideal for room additions and newly enclosed spaces such as sunrooms, garages, sheds and pool houses that cannot be connected to the main central air conditioning system, or where extending or installing ductwork would be time consuming, costly, or not possible.

## How Mini Split Systems Work:

### The Differences between Central Air and Mini Split Systems

All air conditioning systems consist of an outdoor condensing unit and an indoor evaporator unit.

With a central system the evaporator unit is commonly installed in the basement or attic and uses metal or fiberglass ductwork to deliver warm or cool air to different rooms in your home. A central system requires space inside the walls, between the joists for the ductwork, and floor, wall, or ceiling space to install the registers. These systems are often noisy and the ductwork can be a haven for dust, germs, mold, bacteria, and insects.

A mini split system is totally ductless. The indoor unit is mounted in the room you want to heat or cool, so no ductwork is required. The outdoor and indoor units are connected with copper refrigerant pipes and wires that are tightly wrapped securely and connect the indoor and outdoor units through a 3" opening in the wall. Installation is faster, and easier than a conventional ducted system.



The system's compressor (found in the outdoor condensing unit) pumps refrigerant through the condensing coils and the metering device to the indoor unit where a fan blows across the coil to cool the room.

In heat pump mode, the same unit absorbs heat from the outside air and moves it indoors to heat the room. For most climates, this results in efficient, heating and cooling, keeping you comfortable all year long.





Most central system outdoor units are up-flow, which means the condenser fan blows upwards. Because of this, the outdoor units need more installation room. A mini split system's outdoor unit is horizontal flow, which means the fan is pointed sideways. Because it requires less room, a mini split can be placed where installation of a central air system would not be possible. A mini split can be installed on a concrete pad, hung on a wall, a balcony or below a deck, making them ideal for metropolitan areas, where space between buildings can be very tight.

## Maximum Comfort, Minimum Cost

Conventional forced air cooling or heating systems use an “on and off” cycle. When a conventional system starts running, it runs at its top speed, consuming the maximum amount of energy in order to reach the desired temperature. The system then has to cycle between on and off to maintain the set temperature. The continual starting and stopping of the major components in a conventional air conditioning system reduces the life span of the compressor and other components.

YMGI's mini splits use a DC Inverter to convert Alternating Current (AC) to Direct Current (DC), modulate pulse width, and then redirect the inverted current back to alternating current (AC) at the optimal frequency, for precise control of the operating speed of the electric motors and compressor. Our Symphony Series Mini Split DC Inverter system, allows your system to start slowly and smoothly, and then accelerate to higher speeds to quickly bring the room to your desired temperature. Once the set temperature is reached, the system slows and adjusts itself to counter the heat gain or loss of the building, so it can maintain a more consistent temperature. Delivering maximum comfort at minimum cost.

## Easy to USE and Easy To Live With

Each YMGI mini split indoor unit comes with a remote control that lets you select the operating thermal mode, desired temperature, fan speed, and oscillation of the air louvers, giving you total control of your environment. The remote also allows you to program the start and stop time. Different series remotes have additional functions and features. Please see the manual to find out what other functions your YMGI CHOIR Remote has.



## Perfect for Any Decor

YMGI has indoor units that suit your heating and cooling needs and your taste. YMGI CHOIR systems offer a complete line of indoor units to cool or heat your rooms. The (59) series systems can be installed with YMGI's EW wall mounted unit, flush mounted EC ceiling cassette unit that seamlessly blend into suspended ceilings, recessed ceiling mount EF, floor or wall mounted EL console indoor unit, and floor or ceiling mounted EU indoor units.

# BENEFITS

## Models & Features to Meet Any Need

YMGI offers a wide selection of DC Inverter mini split systems. The CHOIR multi-zone systems are available in capacities from 2x9,000 Btu/h to 9x9,000 Btu/h. All YMGI DC Inverter mini split units use energy efficient rotary compressors, and have system efficiency ratings from 16 to 22 SEER.

## Cover Up to Nine Zones

The CHOIR system is designed for structures with multiple rooms, each with different zone control needs. The YMGI CHOIR DC Inverter Mini Split System can cover up to nine indoor units with a single outdoor unit. Because the CHOIR is so flexible, there are a wide selection of capacities and indoor unit types, making them a wise choice for offices, apartment buildings, and other structures where environmental control needs to be customizable from room to room.

## Reduce Your Carbon Footprint

Heating and cooling consume the greatest amount of energy in the average home, making up around 40% of your energy bill.

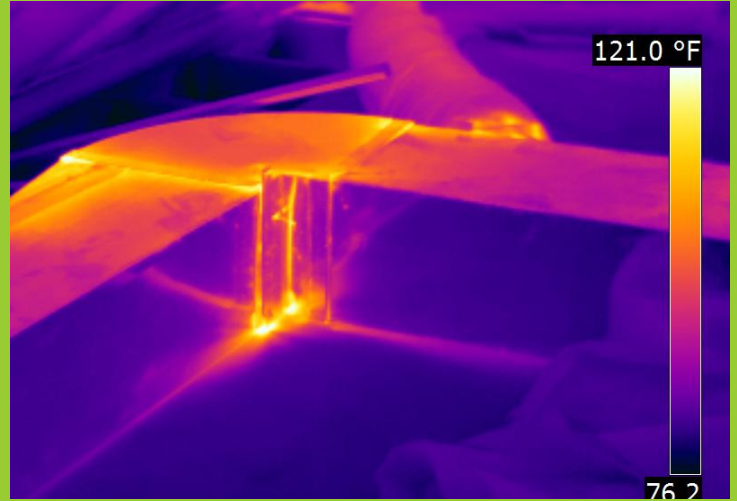
YMGI systems are some of the most energy efficient HVAC products in the industry. Every detail of the CHOIR Series systems, from the ductless design, zoning capabilities, DC Inverter technology, and even our remote controls, are designed to reduce energy consumption.

## Eco-friendly Refrigerant

YMGI's environmentally friendly mission doesn't end with energy consumption. Older systems use ozone depleting R-22 refrigerant. Every YMGI system uses R-410A refrigerant, which is non-ozone depleting.

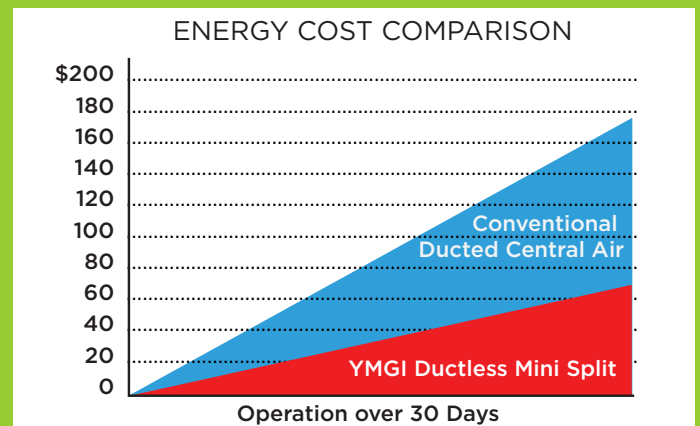
## Save Money

As much as 40% of the energy used in your home goes toward heating and cooling. In conventional central air systems, over 30% of the heat created escapes through the duct work before it ever enters a room. YMGI mini split systems have no ductwork, so no energy is wasted.



The bright yellow areas in this thermal image, demonstrate the heat loss common in conventional ducted HVAC systems.

More savings are realized with our zoned systems. Because each zone or room is controlled separately, you only need to cool or heat a room when it is in use. With energy efficiency rating up to 35 SEER, YMGI DC Inverter systems not only make your room more comfortable, they also make your electric bills more affordable.



Comparison of 3 YMGI 12,000 Btu/h with a 22 SEER mini split systems vs. 8 SEER, 3 ton central system.

\*Operation cost will vary, based on Kw/hr cost in your area.



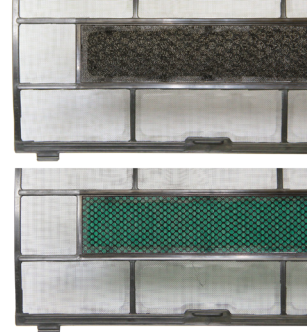
## Indoor Air, and your Health

- Indoor Air is up to 70 times more polluted than outdoor air.
- The average household generates up to 40 lbs of dust annually.
- Sinus headaches and respiratory infections can be caused by poor indoor air quality.
- Allergies and asthma can be aggravated by poor indoor air quality.



## Experience Maximum Air Filtration

Every YMGI indoor unit includes our washable and reusable particulate air filter. We also offer advanced filtration options, such as our active enzyme filter to eliminate bacteria, cold catalyst filter for removing pollen, dust, bacteria and harmful airborne chemicals from carpeting, flooring, paint, and household cleaners, and our static electric filter for more thorough dust removal. With our selection of specialized filtration options, you can customize your indoor units to your air quality needs.



## Breath Healthier

Conventional ducted systems are notorious for poor air quality. Ductwork used in these systems create a breeding ground for dust mites, bacteria, and mold. When air passes through the ducting, dust, pollen and other allergens can be spread throughout a home, and adversely affect your health. Because YMGI mini split systems have no ducting, and filter the air in the room, your circulated air is cleaner and you can breathe healthier.

## Sleep Better

YMGI DC Inverter CHOIR mini split systems have Sleep Mode, a feature that can give you the most comfortable night's sleep you've ever experienced. In Sleep Mode, YMGI CHOIR systems automatically and gently adjust a room's temperature so you remain comfortable all night long. When heating, it gently allows the temperature to fall in the middle of the night. When cooling it allows the temperature to rise slightly in the middle of the night. Sleep Mode helps conserve energy as well.



Remote Controller Included

Optional:



Bridge Controller



Thermostats



By using a YMGI bridge controller, North American style thermostats (Nest, Honeywell, Pro1, YMGI etc.) can be used for temperature control, locally or remotely, individually or in groups.

# UNIQUE FEATURES

both **Simple** & **Profound**

## High Efficiency

All YMGI DC Inverter systems, with SEER ratings up to 35, far exceeding the current world standards for energy efficiency. ETL listed in both the U.S. and Canada, and certified by AHRI and ENERGY STAR®.



## Intelligent Defrosting

YMGI defrosting is intelligently controlled by a YMGI microcomputer processor ensuring worry-free, heat pump performance in mild and cold weather. This unique ON-DEMAND defrosting design improves heating efficiency, thermal performance and keeps your room comfortable throughout the winter and the years.

## U-TOUCH Remote Control

YMGI's U-TOUCH remote lets you control every feature and function of your Indoor Unit, from anywhere in the room. While other mini split systems place their indoor air temperature sensor behind the grille of an indoor unit, YMGI's sensor is built into the remote. It measures the temperature where people are located, not the wall or ceiling unit. Accurate temperature control for personal comfort.





# YMGI Technology

## DC Inverter Technology - Continuously Adjusting for Profound Performance

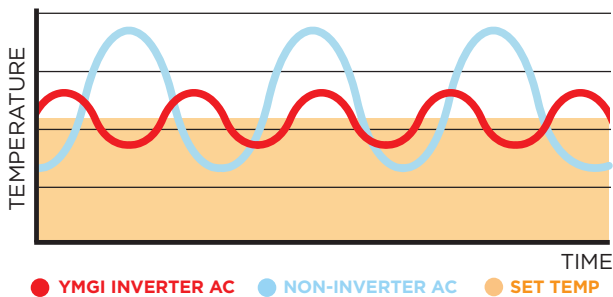
Unlike conventional systems that cycle between on and off repeatedly, YMGI Symphony CHOIR DC Inverter systems monitor room temperature and continuously adjust compressor speed up or down to provide precise temperature and humidity control. DC Inverter systems do this by converting Alternating Current (AC) to Direct Current (DC), modulating pulse width, and then reconvert the current back to AC at the calculated frequency to precisely generate the thermal output needed.

The incoming electrical power has a fixed frequency of 60 Hertz. By converter and inverter, the precise current frequencies and voltages are generated to supply the system, allowing the compressor to run at different speeds and delivering various thermal capacities with minimum energy consumption.

This allows the system to maintain the set room temperature within very narrow ranges and consume substantially less energy.

## Optimized System Design

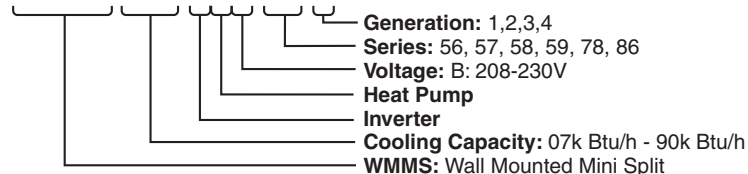
Components are both individually and systematically optimized to ensure CHOIR systems work in a wide range of applications, and deliver the right amount of heating or cooling when you need it, and with maximum efficiency.



## Nomenclature

### Model Number:

WMMS-36K-V2B(59)4



## Low Ambient Temperature Heating & Cooling

When outdoor temperatures fall, heat pump capacity and efficiency drops. In low ambient temperatures, YMGI's DC Inverter technology operates better than many other systems available on the market. The powerful heating system keeps you warm, even in extreme cold weather. YMGI's DC Inverter technology and special control logic also make cooling in low ambient temperature ranges a reality.

## Compressor Crank Case Heater

This component helps preheat the compressor when the outdoor ambient temperature is low, so that the compressor has a smooth easy start, especially in extreme cold weather.

## Soft Start

The compressor starts at a lower voltage and frequency and then accelerates, for a smooth start. This reduces energy consumption of the outdoor unit by approximately 30% compared to conventional HVAC systems. This also reduces electrical circuit load when multiple electrical devices are used.

## De-Ice Base Pan Heater

This component prevents damage to your unit's fan blade, coil, compressor, and other components. Automatically activated when outdoor temperatures go below freezing, when ice could form in the base pan.

## Over-Current, Over-Heat & Over-Pressure Protection

Built-in protection for over-current, over-heat and over-pressure, ensuring safe operation and longevity of components and the unit.

## Adaptive Smart Control

The adaptive smart control fuzzy logic enables responsive and precise control over the compressor frequency, voltage, fan speed and valve opening size. This ensures rapid, precise and safe adjustments and makes sure the system delivers the exact amount of warm or cool air with minimum energy consumption.

# UNIQUE FEATURES

both **Smart** & **Safe**

## Comfort & Convenience

### **Auto Mode**

By continuously sensing and comparing the set temperature to the room temperature, this feature switches between heating and cooling modes, automatically delivering the exact amount of warm or cool air needed to keep your space comfortable with no worries about the weather outside.

### **Turbo Heating and Cooling**

The Turbo function boosts cooling or heating capacities at high compressor speed and fan speeds. Rooms reach set temperatures as rapidly as possible.

### **Air Swing**

Motorized louvers oscillate vertically and horizontally, to direct air throughout a room, maintaining an even temperature, and eliminating hot or cold spots. The louver motor can also be stopped so that you can direct air flow to a specific area. The remote control lets you adjust this setting quickly and easily.

### **Hot Start-Up**

When heating mode is selected, or when the system transitions from cooling to heating, the indoor fan motor pauses. This prevents cold air from being blown into an already cold room. When the indoor unit coil and pipes are preheated, the fan engages and circulates warm air.

### **Sleep Mode**

With the Sleep Mode on, the system will adjust the room target temperature to slowly rise when cooling or fall when heating. This will save energy, and allow you to sleep comfortably while preventing sudden changes in the room's temperature.



### **24-Hour On/Off Timer**

Set your indoor unit to heat, cool or shut down at any time of day.

### **Memory and Auto Restart**

If your unit should lose power, YMG systems remember the operation mode, airflow, and temperature settings and continue normal operation once power is restored.

### **Self-Diagnosing**

Error codes are shown on the LED display of the indoor unit, or LED lights on the outdoor control boards. If your system has an issue, it can be diagnosed easily and accurately by an HVAC technician, and quickly resolve the problem.

### **Digital Display On/Off**

Our easy to read LCD display can be turned on or off with the remote control. This feature allows a room to remain dark at night, or you can turn the digital display on and use the display as a night-light.

## Safety Systems

- Low Pressure / Refrigerant Leaking Sensor
- Compressor Discharge Temperature Sensor
- Outdoor Coil Temperature Sensor
- Outdoor Ambient Temperature Sensor
- Indoor Coil Temperature Sensor
- Indoor Air Temperature Sensor
- Built-in Over-Current Fuse at Outdoor Unit
- Built-in Over-Current Fuse at Indoor Unit
- Optional De-Ice Heater in Outdoor Unit Pan



# Environmentally Friendly Inside & Out

## **R-410A Refrigerant**

All CHOIR systems use R-410A refrigerant, which is Hydro fluorocarbon (HFC) Free with zero ODP (Ozone Depletion Potential).

## **RoHS Approved Materials**

RoHS restricts the use of harmful substances commonly used in electronic equipment. YMGI only uses RoHS approved materials.

## **Nitrogen-Protected Brazing**

Reduced oxidation of joined metal parts, reliable performance and a longer unit life.

## **Volatile Liquid Coil Cleaning**

Component surfaces, joints, and corner welds are all thoroughly cleaned to insure safe and sanitary equipment.

## **Leakage Checked Refrigerant System**

All refrigerant pipes, joints and components are tested for leakage during each step of manufacturing.

## **Washable Particulate Filter and Advanced Filters**

All YMGI systems come with a standard washable particulate filter. YMGI also offers advanced filtration options, such as active enzyme filter to eliminate bacteria, cold catalyst filter for removing pollen, dust, bacteria and harmful airborne chemicals from carpeting, flooring, paint and household cleaners, and our static electric filter for more thorough dust removal. With our selection of specialized filtration options, you can customize our indoor units to your air quality needs.

## **Wide-Angle Air Spread and Long Air-Throw**

A quiet and powerful fan, and louvers all for horizontal and vertical airflow allow for an air throw of over 20 feet, making sure conditioned air reaches every corner of the room.

## **Independent Dehumidification**

YMGI units are designed to reduce humidity levels, making heating and cooling more efficient.

## **Random Pitch Cross-Flow Fan Wheel**

YMGI's random pitch cross-flow fan wheel limits and offsets high pitched and low frequency sound generated during fan wheel rotation to provide whisper quite operation.

## **Perfect Temperature in Every Room**

YMGI CHOIR systems allow use your hand held remote control or wall mounted wired controller to adjust settings. Because each indoor unit operates independently, each room can be adjusted for the occupant's exact comfort preferences.

## **Quiet Operation**

YMGI CHOIR systems reduce interior noise levels with the optimized design of the blower output and blower housing, and using anti-leak insulation materials, incorporating a multi-speed motor and random pitch cross-flow fan wheel. All these features add up to a quieter heating and cooling system.

CHOIR outdoor units adjust fan rotation speed up or down depending on the actual cooling or heating loads. The fan motor accelerates to the highest speed to cool or heat the room at start-up, and then reduce speed to maintain the set room temperatures.

Vibration absorbing jackets are wrapped around the compressors. The copper pipes between the compressor, the 4-way reversing valves, stopping valves and other refrigeration components are designed to reduce tension and vibration. Weight-balancing rubber is used to lower piping vibration in extreme operating conditions.

All these features and more, result is a system that operates quietly, efficiently, safely, and dependably for years.

## **Silent Comfort**

- Computer designed and wind tunnel optimized components
- Mesh-net combed intake air pattern
- Cross-flow fan wheel
- Sound absorbing insulation
- Vibration absorbing rubber grommets
- Lubricated motor bearings and molded fan motor
- Reliable quiet compressors
- Precision assembled

# SYMPHONY CHOIR (59)4 SERIES



WMMS-30CH-V2B(59)4  
1 to 2 zones



WMMS-36CH-V2B(59)4  
1 to 3 zones



WMMS-42CH-V2B(59)4  
1 to 4 zones



WMMS-48CH-V2B(59)4  
1 to 5 zones



WMMS-60CH-V2B(59)4  
2 to 5 zones

## YMGI Symphony CHOIR 59 Series



Multiple-Zone (59)4  
1-5 Zone Mini-split Outdoor Units  
21 SEER

### YMGI DC INVERTER CHOIR Multi Zone-Outdoor Units

The CHOIR outdoor condensing unit has a 21 SEER rating. All with capacities from 30k to 60k Btu/h and capable of heating and cooling 1 to 5 zones. The CHOIR requires 208-230 volt, 1 phase, 60Hz power. Refrigerant is pumped as a thermal medium to dispense heat into ambient air in the summer; while absorbing heat from ambient air in the winter. The compact design allows for ground installation, or mounting in a variety of discreet locations, including on a wall, under a deck or even on a balcony.

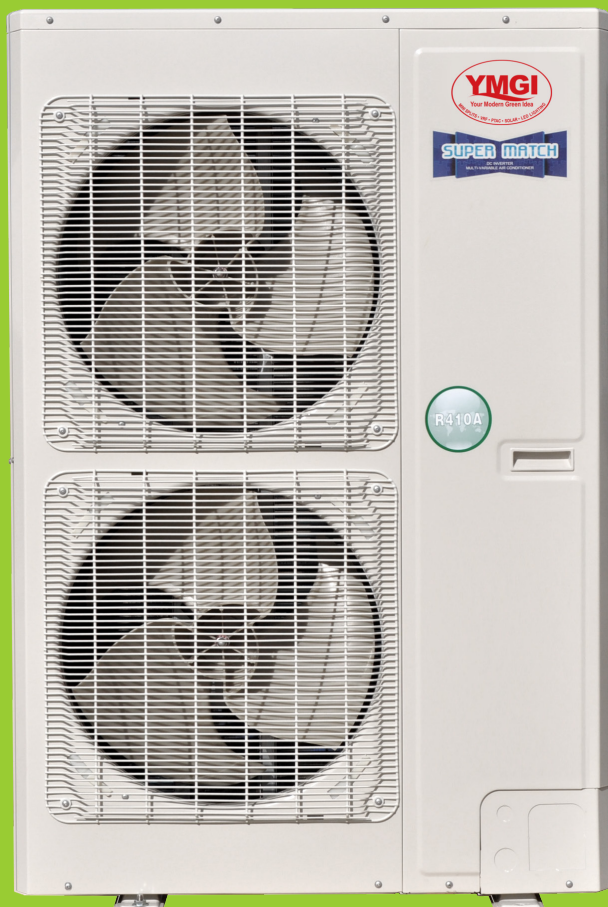


# DC Inverter Mini System-Multiple Zone-(59)4 21 SEER CHOIR Outdoor Units 1-5 Zone 30k-60k Btu/h

Outdoor Unit Models		WMMS-30CH-V2B(59)4 (1 to 2)	WMMS-36CH-V2B(59)4 (2 to 3)	WMMS-42CH-V2B(59)4 (2 to 4)	WMMS-48CH-V2B(59)4 (2 to 5)	WMMS-60CH-V2B(59) 4 (2 to 5)
Power Supply		208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
Cooling Capacity* (Btu/h)	Max. IDU Cap. Total 2	30,000 (2 Thermal Zones)	36,000 (2 Thermal Zones)	42,000 (2 Thermal Zones)	48,000 (2 Thermal Zones)	60,000 (2 Thermal Zones)
	Rated 1	18,000	24,000	28,400	34,000	39,000
	Min	7,000	7,500	8,200	8,900	8,870
Total Power Input in Cooling Mode* (W)	Max.	2300	3300	4500	4500	5100
	Rated	1550	2250	2600	2600	3950
	Min.	650	800	900	1000	1200
SEER		22.00	21.00	21.00	21.00	21.00
HSPF	Btu/h/ W	10.50	10.50	10.50	10.50	10.20
Heating Capacity* (Btu/h)	Max. IDU Cap. Total 2	32,000	38,000	50,000	59,000	64,000
	Rated 1	19,000	26,000	30,000	42,500	45,000
	Min.	7,000	7,500	8,200	8,900	8,870
Total Power Input in Heating Mode*	Max.	2400	3000	3500	3500	4800
	Rated	1750	2500	2920	2920	4400
	Min.	650	800	900	1000	1200
Liquid Valve Size	In	2 x 1/4"	3 x 1/4"	4 x 1/4"	5 x 1/4"	5 x 1/4"
Gas Valve Size	In	2 x 3/8"	3 x 3/8"	4 x 3/8"	5 x 3/8"	5 x 3/8"
Compressor Oil		RB68EP	RB68EP	FV50S	FV50S	FV50S
L.R.A.	A	27	45	45	45	55
Compressor RLA	A	10.82	15.82	13.9	15.6	17.8
Compressor Power Input	W	1440	2550	4150	4150	4150
MCA	A	16	23	20-All IDUs EW / 30-All IDUs EC or EU	23-All IDUs EW / 40-All IDUs EC or EU	24
Fuse or Circuit Breaker (HVAC Type)	A	25	30	30-All IDUs EW / 40-All IDUs EC or EU	35-All IDUs EW / 45-All IDUs EC or EU	40-All IDUs EW / 50-All IDUs EC or EU
Throttling Method		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Starting Method		Transducer starting	Transducer starting	Transducer starting	Transducer starting	Transducer starting
Recommended Working Ambient Temp Ranges	°F	AC: 0 ~ 118 HP:-4 ~ 75	AC: 0 ~ 118 HP:-4 ~ 75	AC: 0 ~ 118 HP:-4 ~ 75	AC: 0 ~ 118 HP:-4 ~ 75	AC: 0 ~ 118 HP:-4 ~ 75
Condenser		Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
Output of Fan Motor	W	60	90	100	170	170
Fan Motor RLA	A	0.62	0.59	0.68	0.82	0.82
Fan Motor Capacitor	uF	3	3.5	3.5	3.5	6
Fan Type-Piece		Axial-flow 1	Axial-flow 1	Axial-flow 1	Axial-flow 1	Axial-flow 1
Fan Diameter	In.	20.47	21.65	21.65	22.44	22.44
Defrosting Method		Auto Defrost	Auto Defrost	Auto Defrost	Auto Defrost	Auto Defrost
Climate Type		T1	T1	T1	T1	T1
Isolation		I	I	I	I	I
Moisture Protection		IP24	IP24	IP24	IP24	IP24
Max. Operating Pressure at High Side	PSI	550	550	550	550	550
Max. Operating Pressure at Low Side	PSI	240	240	240	240	240
Sound Pressure Level dB (H/L)	A	56	59	59	61	61
Sound Power Level dB (H/L)	A	63	69	69	71	71
Outdoor Unit Dimensions (W x H x D)	In.	38 x 27.6 x 13.4	38.6 x 31.1 x 13.4	38.4 x 31.1 x 14.6	42.75 x 43.38 x 17.63	42.75 x 43.38 x 17.31
Package Dimensions (W x H x D)	In.	40.5 x 29.53 x 18.03	42.63 x 33.63 x 19.22	42.63 x 33.63 x 19.22	45.56 x 48.63 x 19.75	45.63 x 48.63 x 19.38
Net /Gross Weight	LBs	114.6 / 124.5	153 / 164	154 / 169.75	198.4 / 216	198.4 / 216
R410A Refrigerant /Factory Pre-Charge for 25'	LBs	3.53	4.85	6.17	8.05	8.05
Maximum drive IDU NO.		2	3	4	5	5
		WMMS-30CH-V2B(59)4	WMMS-36CH-V2B(59)4	WMMS-42CH-V2B(59)4	WMMS-48CH-V2B(59)4	WMMS-60CH-V2B(59)4
Total length (actual length) of fitting pipe		≤ 150 ft	≤ 200 ft	≤ 230 ft	≤ 250 ft	≤ 300 ft
Length of farthest fitting pipe		≤ 60 ft	≤ 60 ft	≤ 80 ft	≤ 80 ft	≤ 80 ft
Height difference between outdoor unit and indoor unit	Outdoor unit at upper	≤ 60 ft	≤ 60 ft	≤ 60 ft	≤ 60 ft	≤ 60 ft
	Outdoor Unit at lower	≤ 50 ft	≤ 50 ft	≤ 50 ft	≤ 50 ft	≤ 50 ft
Height difference between indoor units		≤ 25 ft	≤ 25ft	≤ 25ft	≤ 25 ft	≤ 25 ft

- Factory refrigerant charge is for 25ft each run. Adjust refrigerant charge by pressure and weight. If the copper line lengths are different from numbers listed above. Temperature-pressure chart can be found in the installation manual and on the unit.
- If any indoor unit is 50' or more away from the outdoor unit, increase line size to reduce capacity loss.

# SYMPHONY CHOIR (59)2S SERIES



WMMS-80CH-V2B(59)2  
5 to 8 zones



WMMS-90CH-V2B(59)2  
5 to 9 zones

## YMGI Symphony CHOIR 59 Series



DC INVERTER  
Multiple-Zone (59)2 5-9 Zone Mini-split  
Outdoor Units

### YMGI DC INVERTER CHOIR Multi Zone-Outdoor Units

The (59)2S CHOIR outdoor condensing unit has a 16 SEER rating. With capacities of 80k and 90k Btu/h and capable of heating and cooling 5 to 9 zones. The (59)2S CHOIR requires 208-230 volt, 1 phase, 60Hz power. The compact design allows for ground installation on a concrete pad, a balcony or below a deck, making them ideal for metropolitan areas, where space between buildings can be very tight.



# DC Inverter Mini System-Multiple Zone-(59)2 16 SEER CHOIR Outdoor Units 5-9 Zone 80k-90k Btu/h

Model	-	WMMS-80CH-V2B(59)2	WMMS-90CH-V2B(59)2
Allowed Capacity Rating Totals-All Indoor Units	Btu/h	80,000 (2 Thermal Zones)	90,000 (2 Thermal Zones)
Cooling Capacity-Rating	Btu/h	47,800	52,900
Min. Cooling Capacity	Btu/h	3,412	3412
Max. Cooling Capacity	Btu/h	54,592	61,416
Heating Capacity-Rating	Btu/h	54,600	61,400
Min. Heating Capacity	Btu/h	4094	4094
Max. Heating Capacity	Btu/h	59,369	63,122
EER	W/W	2.80	2.77
EER	Btu/h / W	9.56	9.45
COP	Btu/h / W	12.41	11.81
SEER	Btu/h / W	16	16
HSPF	Btu/h / W	8	8
Air Flow Volume	CFM	3766	4120
Sound Pressure Level Low-High	dB(A)	43 - 57	43 - 58
Sound Power Level Low-High	dB(A)	52 - 67	52 - 68
Rated Input Ele. Power Supply	V	208-230 / 1 / 60	208-230 / 1 / 60
Cross-sectional Area of Power Cable Conductor	mm <sup>2</sup>	6.00	6.00
Recommended Power Cable (Multi-Strand)	AWG x N	8x3	8x3
Fuse Current	A	50	50
HVAC Type Circuit Breaker	A	50	50
Cooling Power Input	KW	5.00	5.60
Heating Power Input	KW	4.40	5.20
Rated Power Input	KW	5.60	6.50
Cooling Current Input	AMP	23	25
Heating Current Input	AMP	20	22.5
Rated Current	AMP	28	28
Starting Current	AMP	10	10
Compressor Make	-	Landa(LD)	Landa(LD)
Compressor Model	-	QXAS-F428zX050A or Equivalent	QXAS-F428zX050A or Equivalent
Compressor Type1	-	Inverter Rotary	Inverter Rotary
Compressor Capacity	Btu/h	46075	46076
Compressor Power Input	W	4580.00	4580.01
Compressor Rated Load Amp (RLA)	A	23.00	23.00
Compressor Locked Rotor Amp (L.R.A)	A	-	-
Compressor Thermal Protector	-	NO	NO
Compressor Crankcase	W	40	40
Compressor Refrigerant Oil Type	-	FV50S	FV50S
Compressor Refrigerant Oil Charge Volume	L	1.35	1.35
Chassis Electrical Heater Power Input	W	140	140
Chassis Electrical Heater Current	A	0.6	0.6
Fan Type	-	Axial-flow	Axial-flow
Fan Quantity	-	2	2
Fan Diameter / Height	mm	472 / 160	472 / 160
Motor Model	-	SWZ120A	SWZ120A
Motor Type	-	DC Motor	DC Motor
Motor Insulation Class	-	B	B
Motor Safe Class	-	IP44	IP45
Overload Protector	-	NO	NO
Motor Full Load Amp(FLA)	A	1	2
Fan Motor Drive Type	-	Built-in driver	Built-in driver
Fan Motor Speed High to Low	RPM	784 / 680 / 576 / 480 / 384 / 280	864 / 760 / 608 / 464 / 352 / 280
Fan Motor Power Output	W	120W	120W
Fan Motor Power Input	W	150W	150W
Fan Motor Capacitor	µF	NO	NO

Model	-	WMMS-80CH-V2B(59)2	WMMS-90CH-V2B(59)2
Condenser Material	-	Copper tube-hydrophilic aluminum foil	
Condenser Face Area	Sq.Ft	13.89	13.89
Condenser Copper Pipe Diameter OD	Inch	5/16	5/16
Condenser Copper Pipe Rows	-	2	2
Condenser Tube Pitch (a)*Row Pitch(b)	Inch	3/4 * 7/8	3/4 * 7/8
Condenser Fin FPI	Fins	15	15
Condenser Fin Type	-	Wave	Wave
Condenser Fin Color	-	Blue	Blue
Condenser L x D x H	Inch	27.3 x 11.3 x 52.0	27.3 x 11.3 x 52.0
Condenser Max. Allowable Pressure	PSI	623	623
Permissible Excessive Operating Pressure for the Discharge Side	PSI	580	580
Permissible Excessive Operating Pressure for the Suction Side	PSI	145	145
High Presser Overload Protector	PSI	542	542
Low Presser Overload Protector	PSI	23.2	23.2
Cooling Operation Ambient Temperature Range	°F	5 ~ 118	5 ~ 118
Heating Operation Ambient Temperature Range	°F	-4 ~ 75	-4 ~ 75
Maximum IDU Qty.	Unit	8	9
Defrosting Method	-	Automatic defrosting	Automatic defrosting
Isolation	-	I	I
Moisture Protection	-	IPX4	IPX5
Overload Protector	-	NO	NO
Climate Type	-	T1	T2
Refrigerant	-	R410A	R410A
Refrigerant Charge	lbs	10.9	10.9
Metering Device	-	Electronic expansion valve	Electronic expansion valve
Dimension of Unit Net (WxDxH)	Inch	35.4 x 14.8 x 53.1	35.4 x 14.8 x 53.1
Dimension of Carton Box (WxDxH)	Inch	38.6 x 17.3 x 54.4	38.6 x 17.3 x 54.4
Net Weight	lbs	256	256
Gross Weight	lbs	275	275
Ref. Valve Connection		Flare	Flare
Unit is Precharged for Maximum Pipe Length	Ft	null	null
Refrigerant Charging Port		YES	YES
Connection Pipe Liquid Pipe Outer Diameter	Inch	3/8"	3/8"
Connection Pipe Gas Pipe Outer Diameter	Inch	3/4"	3/4"
Maximum allowable length	Between outdoor unit and BU	≤ 180	≤ 180
	Between outdoor unit and indoor unit	≤ 260	≤ 300
	Between BU module and indoor unit	≤ 50	≤ 50
	Between indoor unit and the 1st branch	≤ 130	≤ 130
Maximum allowable Elevation difference	Between outdoor and indoor units	≤ 100	≤ 100
	Between outdoor units and BU	≤ 100	≤ 100
	Between BU module and indoor unit	≤ 50	≤ 50
	Between indoor unit and the 1st branch	≤ 50	≤ 50
Minimum allowable length	Between outdoor and indoor units	≤ 15	≤ 15
	Between outdoor units and BU	≤ 15	≤ 15

## Legend: IDU- Indoor Unit, ODU-Outdoor Unit, BU-Branch Unit Important Notes About the DC Inverter Systems Performance

- The rated performance data printed on the nameplate were tested per AHRI 210/240 standards at standard indoor and outdoor conditions and standard installation set-up.
- The DC inverter outdoor unit will modulate to match whatever capacity is requested from indoor unit side, to produce a wide range of capacities, minimum could be as low as 15% of the rated number and maximum could be up to 160% of the rated number.
- Once the DC inverter system is installed, each indoor unit's output and the outdoor unit performance will all vary over the operation period: soft-starting, turbo quick cooling/heating, maintenance, defrosting, switching, and other condition changes.
- Actual performance varies upon many factors such as indoor and outdoor temperatures, inter-connecting pipe length/bending, elevation difference between indoor and outdoor units, refrigerant charging level, vacuum level, leakage, air or moisture or contamination level, foreign substance left in the piping, indoor filter clean level, indoor and outdoor coil conditions, and other factors.

# Symphony Choir Indoor Units (59)2

## Ceiling Cassette Indoor Units



The EC indoor unit is a heating and cooling solution for large open rooms that are more than 25' long or wide. The 12K and 18K ceiling cassette units are 23.5" square, allowing easy installation into the 24" joist space and mount flush to the ceiling. 24K units are 32.75" square and are mostly used in commercial applications.

Each unit has a digital readout that displays unit settings and technician information. Remote control and wall mounted controls are included.

Standard remote or wall mounted thermostats are available. Each unit has a digital readout that displays unit settings and technician information.

Items	Unit / Conditions	WMMS-12EC-V2B(59)2	WMMS-18EC-V2B(59)2	WMMS-24EC-V2B(59)2
Power Supply	Voltage/Ph/Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
	Allowed Voltage Range	187 - 253	187 - 253	187 - 253
Cooling Capacity (Btu/h)	High / Med / Low	13900 / 12000 / 5200	20800 / 16000 / 6200	26500 / 22800 / 9600
Heating Capacity (Btu/h)	ID 70 / 60, OD 47 / 43 °F	13000	18100	27400
	ID 70 / 60, OD 17 / 15 °F	13600	17000	27300
	ID 70 / 60, OD 17 / 5 °F	9000	13100	20600
SEER	Btu/h/ W	16	16	16
HSPF	Btu/h/ W	8.2	8.2	8.2
Dehumidifying Capacity	Pints/Hr.	2.96	3.8	5.28
Air Flow (CFM)	High / Medium / Low	353 / 312 / 245	353 / 312 / 245	694 / 522 / 366
Air-throw (Ft.)	Horizontal Installation	125-18 Upon Mounting Height/Speed/Temp.		
External Static Pressure	Water In.	0	0	0
Sound Level	Pressure dB(A) (H/M/L)	39 / 37 / 35	39 / 37 / 35	45 / 43 / 41
	Power dB(A) (H/M/L)	49 / 47 / 45	49 / 47 / 45	55 / 53 / 51
Fan Motor	Model	FN11T-2	FN11T-2	FN35B-1
	Shaft	Single	Single	Single
	Speed (RPM, H/M/L)	700 / 600 / 515	700 / 600 / 515	570 / 520 / 280
	Output (W)	11	11	50
	Input (W)	50	50	165
Fan Wheel	Capacitor (uF)	1	1	3
	Type-Piece	Centrifugal-1	Centrifugal-1	Centrifugal-1
	Diameter x Height (In.)	11.1 x 5.8	11.1 x 5.8	17.7 x 4.4
Swing/Step Motor	Model	MP35CB	MP35CB	MP35CB
	Piece	2	2	2
	Output (W)	2	2	2
Input Power of Ele. Heater	Type-W	NA	NA	NA
Electrical Protection Fuse	PCB / Transformer	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A
Evaporator Coil	Type	Alu. Fin/Inner Grooved Copper Tube		
	Color	Blue	Blue	Blue
Copper Line Connections	Sealed by Dry Nitrogen	Yes	Yes	Yes
	Flare/Nut-Liquid + Gas	1/4" + 3/8"	1/4" + 1/2"	3/8" + 5/8"
Drain Hose Connection	OD (In.)	1.22	1.22	1.22
Condensate Pump	Lift (In.)	25	25	25
Refrigerant	R410A	Yes	Yes	Yes
Filter	Type-Feature	Washable Particulate	Washable Particulate	Washable Particulate
	Size WxH (In.) - Qty.	13.56 x 13.13 - 1	13.56 x 13.13 - 1	21.38 x 21.34 - 1
Clean Coil Surface	Anti-Mildew Function	Yes	Yes	Yes
Pre-heating Function		Yes	Yes	Yes
Remember Presets	Power is Lost/Resumed	Yes	Yes	Yes
Auto-Restart Function	When Power is Resumed	Yes	Yes	Yes
Unit Dimensions	Net L x W x H (In.)	22.4 x 22.4 x 9.1	22.4 x 22.4 x 9.1	33.1 x 33.1 x 9.4
	Package L x W x H (In.)	33.4 x 28.7 x 12.2	33.4 x 28.7 x 12.2	37.8 x 37.8 x 12.2
Unit Weight	Net (LBs)	39.7	39.7	66
	Packaged (LBs)	50.7	50.7	84
Face Panel Dimensions	Net L x W x H (In.)	25.6 x 25.6 x 2	25.6 x 25.6 x 2	37.4 x 37.4 x 2.4
	Package L x W x H (In.)	28.7 x 26.4 x 4	28.7 x 26.4 x 4	40.9 x 40.4 x 4.5
Face Panel Weight	Net (LBs)	5.5	5.5	14
	Packaged (LBs)	8.1	8.1	22



# Symphony Choir Indoor Units (59)2

## Floor/Ceiling Indoor Units



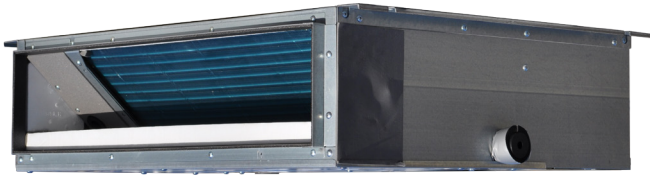
The EU indoor unit is flexible enough to be used for small and large size rooms. 09K, 12K, 18K and 24K units are available. You can choose between a remote, individual wall controls, or a central control thermostat.

Each unit has a digital display that easily shows the unit settings and provide technician information when necessary. EU units are efficient and quiet, and they can be installed on a ceiling, wall or floor.

Items	Unit / Conditions	WMMS-09EU-V2B(59)2	WMMS-12EU-V2B(59)2	WMMS-18EU-V2B(59)2	WMMS-24EU-V2B(59)2
Power Supply	Voltage/Ph/Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
	Allowed Voltage Range	187-253	187-253	187-253	187-253
Cooling Capacity	High / Med / Low	10700 / 8500 / 4600	14100 / 11900 / 5900	19500 / 17000 / 6800	26500 / 22800 / 9600
Heating Capacity	ID 70 / 60, OD 47 / 43 °F	10500	14600	20100	27400
	ID 70 / 60, OD 17 / 15 °F	9500	13100	18700	27800
	ID 70 / 60, OD 17 / 5 °F	8000	9100	13800	20600
SEER	Btu/h/ W	16	16	16	16
HSPF	Btu/h/ W	8.2	8.2	8.2	8.2
Dehumidifying Capacity	Pints/Hr.	1.7	2.96	3.8	5.28
Air Flow (CFM)	High / Medium / Low	383 / 324 / 265	383 / 324 / 265	559 / 412 / 294	736 / 530 / 412
Air-throw (Ft.)	Horizontal Installation	35-30 Upon Mounting Height / Speed / Temp.			
	Upright Installation	35-20 Upon Mounting Location / Speed / Temp.			
External Static Pressure	Water In.	0	0	0	0
Sound Level	Pressure dB(A) (H/M/L)	40 / 38 / 36	40 / 38 / 36	45 / 42 / 40	48 / 46 / 44
	Power dB(A) (H/M/L)	50 / 48 / 46	50 / 48 / 46	55 / 52 / 50	58 / 56 / 54
Fan Motor	Model	FG10A	FG10A	FG20E	FG50A
	Shaft	Double	Double	Double	Double
	Speed (RMP, H/M/L)	690 / 610 / 480	690 / 610 / 480	985 / 800 / 680	985 / 800 / 680
	Output (W)	15	15	20	40
	Input (W)	55	55	110	145
	Capacitor (uF)	1	1	2.5	2
Fan Wheel	Type-Piece	Centrifugal-2	Centrifugal-2	Centrifugal-4	Centrifugal-4
	Diameter x Width (In.)	5.5 x 4.1	5.5 x 4.1	5.5 x 4.1	5.5 x 4.1
Swing/Step Motor	Model	MP35CB	MP35CB	MP35CB	MP35CB
	Piece	2	2	2	2
	Output (W)	2	2	2	2
Input Power of Ele. Heater	Type-W	NA	NA	NA	NA
Electrical Protection Fuse	PCB/Transformer	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A
Evaporator Coil	Type	Aluminum Fin/ Inner Grooved Copper Tube	Aluminum Fin/ Inner Grooved Copper Tube	Aluminum Fin/ Inner Grooved Copper Tube	Aluminum Fin/ Inner Grooved Copper Tube
	Color	Blue	Blue	Blue	Blue
Copper Line Connections	Sealed by Dry Nitrogen	Yes	Yes	Yes	Yes
	Flare/Nut-Liquid + Gas	1/4" + 3/8"	1/4" + 3/8"	1/4" + 1/2"	3/8" + 5/8"
Drain Hose Connection	OD (In.)	Ø 0.67	Ø 0.67	Ø 0.67	Ø 0.67
Condensate Pump	Installed-Lift (In.)	NA	NA	NA	NA
Refrigerant	Environmental Friendly	R410A	R410A	R410A	R410A
Filter	Type-Feature	Washable Particulate	Washable Particulate	Washable Particulate	Washable Particulate
	Size WxH (In.) - Qty.	21.8 x 8.68 - 2	21.8 x 8.68 - 2	21.8 x 8.68 - 2	21.8 x 8.68 - 2
Clean Coil Surface	Anti-Mildew Function	Yes	Yes	Yes	Yes
Pre-heating Function		Yes	Yes	Yes	Yes
Remember Presets	Power is Lost/Resumed	Yes	Yes	Yes	Yes
Auto-Restart Function	If Power is Resumed	Yes	Yes	Yes	Yes
Unit Dimensions	Net WxHxD (In.)	48 x 27.6 x 8.9	48 x 27.6 x 8.9	48 x 27.6 x 8.9	48 x 27.6 x 8.9
	Package WxHxD (In.)	52.8 x 32.3 x 11.8	52.8 x 32.3 x 11.8	52.8 x 32.3 x 11.8	52.8 x 32.3 x 11.8
Unit Weight	Net (LBs)	88	88	88	99
	Packaged (LBs)	110	110	110	119

# Symphony Choir Indoor Units (59)2

## Recessed Fan Coil Indoor Units



The EF indoor unit is designed for rooms where surface mounting an indoor unit is not an option. 09K, 12K, 18K, and 24K are available. Individual or centralized wall thermostats puts perfect temperature control just a touch away.

EF units are efficient and quiet, and normally are installed above walk-in closets, foyers, or hallways. They can be used in offices, show rooms, lobbies, premium hotel rooms, galleries, libraries, and more.

Items	Unit / Conditions	WMMS-09EF-V2B(59)2	WMMS-12EF-V2B(59)2	WMMS-18EF-V2B(59)2	WMMS-24EF-V2B(59)2
Power Supply	Voltage / Ph / Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
	Allowed Voltage Range	187-253	187-253	187-253	187-253
Cooling Capacity (Btu/h)	High/Standard/Low	10700 / 8500 / 4600	14100 / 11900 / 5900	18800 / 15700 / 6800	26500 / 23800 / 9600
	ID 70/60, OD 47/43 °F	10500	13100	20500	28900
Heating Capacity (Btu/h)	ID 70/60, OD 17/15 °F	9550	11600	18700	27400
	ID 70/60, OD 17/5 °F	8000	9100	13800	20600
SEER	Btu/h/ W	16	16	16	16
HSPF	Btu/h/ W	8.2	8.2	8.2	8.2
Dehumidifying Capacity	Pints/Hr.	1.7	2.96	3.8	5.28
Air Flow (CFM)	High/Medium/Low	260 / 180 / 150	320 / 240 / 180	410 / 350 / 295	590 / 440 / 320
Air-throw (Ft.)	Horizontal Installation	25-20 Upon Mounting Height / Speed / Temp.			
External Static Pressure	Water In.	0	0	0	0
Sound Level	Pressure dB(A) (H/M/L)	37 / 34 / 31	39 / 35 / 32	41 / 37 / 33	42 / 38 / 34
	Power dB(A) (H/M/L)	47 / 44 / 41	49 / 45 / 42	51 / 47 / 43	52 / 48 / 44
Fan Motor	Model	FG30A	FG40A	FG60A	FG20E
	Shaft	Double	Double	Double	Double
	Speed (RPM, H/M/L)	970 / 760 / 640	960 / 830 / 700	920 / 780 / 720	985 / 800 / 680
	Output (W)	40	49	75	2 x 45
	Input (W)	80	90	100	2 x 85
	Capacitor (uF)	1	3	3	3
Fan Wheel	Type-Piece	Centrifugal-2	Centrifugal-2	Centrifugal-2	Centrifugal-4
	Diameter x Width (In.)	5.5 x 5.3	5.5 x 5.3	5.5 x 5.3	5.5 x 5.3
Swing/Step Motor	Model	NA	NA	NA	NA
	Piece	NA	NA	NA	NA
	Output (W)	NA	NA	NA	NA
Input Power of Ele. Heater	Type-W	NA	NA	NA	NA
Electrical Protection Fuse	PCB/Transformer	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A
Evaporator Coil	Type	Alu. Fin / Inner Grooved Copper Tube			
	Color	Blue	Blue	Blue	Blue
Copper Line Connections	Sealed by Dry Nitrogen	Yes	Yes	Yes	Yes
	Flare/Nut-Liquid + Gas	1/4" + 3/8"	1/4" + 3/8"	1/4" + 1/2"	3/8" + 5/8"
Drain Hose Connection	OD (In.)	Ø1	Ø1	Ø1	Ø1
Condensate Pump	Installed-Lift (In.)	NA	NA	NA	NA
Refrigerant	Environmental Friendly	R410A	R410A	R410A	R410A
Filter	Type-Feature	Washable Particulate	Washable Particulate	Washable Particulate	Washable Particulate
	Size WxH (In.) - Qty.	23.7 x 7.6 - 1	23.7 x 7.6 - 1	31.6 x 7.6 - 1	39.4 x 7.7 - 1
Clean Coil Surface	Anti-Mildew Function	YES	YES	YES	YES
Pre-heating Function		YES	YES	YES	YES
Remember Presets	Power is Lost/Resumed	YES	YES	YES	YES
Auto-Restart Function	If Power is Resumed	YES	YES	YES	YES
Unit Dimensions	Net WxHxD (In.)	27.6 x 24.2 x 7.9	27.6 x 24.2 x 7.9	35.4 x 24.2 x 7.9	43.3 x 24.2 x 7.9
	Package WxHxD (In.)	35.0 x 29.1 x 11.4	35.0 x 29.1 x 11.4	44.0 x 29.1 x 11.4	52.0 x 29.1 x 11.4
Unit Weight	Net (LBs)	48	51	59	68
	Packaged (LBs)	59	64	79	90



# Symphony Choir Indoor Units (59)2

## Console Indoor Units



The EL indoor unit has a thoughtful design, let's you keep your head and feet comfortable. High or low wall mounting options, combined with high and low discharge vents allow you to quickly heat or cool whichever portion of the room needs it most, keeping you comfortable all year.

The fan can operate at multiple speeds and satisfy different air flow volume requirements. Grille is detachable for easy cleaning. Our long life filter, can go up to 20 times longer between cleaning cycles. The ELs 8 1/2 inch compact profile makes installation easy while using minimal wall or floor space. Users and service technicians can use the digital display on the controller to see status and protection or error codes.

Model		WMMS-09EL-V2B(59)2	WMMS-12EL-V2B(59)2	WMMS-18EL-V2B(59)2
Cooling Capacity	Btu/h	9500	12000	18000
Heating Capacity	Btu/h	11000	13500	20000
Power Supply	V/Ph/Hz	208 / 230 / 1 / 60	208/230/1/60	208/230/1/60
Power Consumption	W	15	20	40
Airflow Volume	m <sup>3</sup> /h	400	480	680
	CFM	235	282	400
Related Current Heating / Cooling	Amp	0.4	0.4	0.4
MCA	Amp	0.5	0.5	0.5
MOP	Amp	15	15	15
Sound Pressure Level	dB(A)	38	40	46
Refrigerant		R410A	R410A	R410A
<b>Connection Pipes</b>				
Liquid Connecting Pipe Diameter	in.	Ø1/4	Ø1/4	Ø1/4
Gas Connecting Pipe Diameter	in.	Ø3/8	Ø3/8	Ø1/2
Drain Pipe External Diameter	in.	Ø 0.67	Ø 0.67	Ø 0.67
Drain Pipe Internal Diameter	in.	Ø 0.59	Ø 0.59	Ø 0.59
<b>Dimensions &amp; Weight Indoor Unit</b>				
Dimensions (W x D x H)	in.	27 5/9 x 8 1/2 x 23 5/8	27 5/9 x 8 1/2 x 23 5/8	27 5/9 x 8 1/2 x 23 5/8
Net/Gross Weight	lbs.	35.3 / 41.9	35.3/41.9	35.3/41.9

# SYMPHONY CHOIR (59)4 SERIES

## Wall Mount EW Unit



### Multiple-Zone (59)4 Mini-split Indoor Units



WMMS-09EW -V2B(59)4



The EW indoor unit is the perfect solution for small rooms (less than 25' long or wide). 09K, 12K, 18K and 24K units are available.

EW units come with a standard remote control. Each unit has an integrated readout that displays unit mode and temperature settings through the cabinet shell. The EW units are efficient and quiet. Installation is simple and easily hung on any wall to allow maximum headroom and floor space.



Units come wi-fi ready, or with wi-fi built in.



WMMS-12EW -V2B(59)4



WMMS-18EW -V2B(59)4



WMMS-24EW -V2B(59)4

# Symphony Choir Multiple Zone (59)4

## Indoor Wall Mounted Units

Items	Unit / Conditions	WMMS-09EW-V2B(59)4	WMMS-12EW-V2B(59)4	WMMS-18EW-V2B(59)4	WMMS-24EW-V2B(59)4
Power Supply	Voltage / Ph / Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
	Allowed Voltage Range	187-253	187-253	187-253	187-253
Cooling Capacity (Btu/h)	High / Med / Low	1200 / 9000 / 4400	14000 / 12000 / 4500	21500 / 18000 / 6800	26500 / 22800 / 9600
Heating Capacity (Btu/h)	Max./Stand./Min.	12500 / 11000 / 8000	14000 / 13000 / 9100	20800 / 19600 / 13800	28800 / 27800 / 20600
	ID 70/60, OD 47/43 °F	9500	13000	18700	27400
	ID 70/60, OD 17/15 °F	8800	11600	16600	23600
	ID 70/60, OD 17/5 °F	8000	9100	13800	20600
SEER	Btu/h/ W	23	22	20	20
HSPF	Btu/h/ W	9.0-8.0	8.9-8.0	9.0-8.0	9.0-8.0
Dehumidifying Capacity	Pints/Hr.	1.69	2.96	3.8	4.23
Air Flow (CFM)	Low / High	171 / 377	171 / 400	339 / 559	530 / 706
Air-throw (Ft.)	Horizontal Installation	35-30 Upon Mounting Height/Speed/Temp.			
External Static Pressure	Water In.	0	0	0	0
Sound Level	Pressure dB(A) (L/H)	26 / 43	28 / 45	35 / 47	36 / 48
Fan Motor	Model				
	Shaft	Single	Single	Single	Single
	Speed (RMP, H/M/L)	1350 / 1050 / 750	1400 / 1050 / 800	1400 / 1050 / 800	1300 / 900 / 850
	Output (W)	20	20	20	35
	RLA (AMP)	0.20	0.1	0.24	0.38
	Capacitor (uF)	/	/	/	/
Fan Wheel	Type-Piece	Cross Flow-1	Cross Flow-1	Cross Flow-1	Cross Flow-1
	Diameter x Width (In.)	Ø3.6 x 25.4	Ø3.6 x 25.4	Ø4.2 x 28	Ø4.2 x 32
Swing/Step Motor	Model	MP24BA	MP24BA	MP35CJ	MP35CJ
	Piece	1	1	1	1
	Output (W)	1.5	1.5	2.5	2.5
Input Power of Ele. Heater	Type-W	NA	NA	NA	NA
Electrical Protection Fuse	PCB / Transformer	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A	T3.15A 250V / 0.2A
Evaporator Coil	Type	Aluminum Fin/Inner Grooved Copper Tube			
	Color	Blue	Blue	Blue	Blue
Copper Line Connections	Sealed by Dry Nitrogen	Yes	Yes	Yes	Yes
	Flare/Nut-Liquid + Gas	1/4" + 3/8"	1/4" + 1/2"	1/4" + 1/2"	1/4" + 5/8"
Drain Hose Connection	OD (In.)	Ø 0.67	Ø 0.67	Ø 0.67	Ø 0.67
Condensate Pump	Installed-Lift (In.)	NA	NA	NA	NA
Filter	Type-Feature	Washable Particulate	Washable Particulate	Washable Particulate	Washable Particulate
	Qty.	2	2	2	2
Clean Coil Surface	Anti-Mildew Function	Yes	Yes	Yes	Yes
Pre-heating Function		Yes	Yes	Yes	Yes
Remember Presets	Power is Lost/Resumed	Yes	Yes	Yes	Yes
Auto-Restart Function	If Power is Resumed	Yes	Yes	Yes	Yes
Unit Dimensions	Net WxHxD (In.)	33.4 x 11.4 x 8.2	33.4 x 11.4 x 8.2	38.2 x 11.8 x 8.8	42.4 x 12.8 x 9.7
	Package WxHxD (In.)	36.1 x 14.3 x 10.9	36.1 x 14.3 x 10.9	40.9 x 15.0 x 12.0	45.0 x 16.1 x 13.2
Unit Weight	Net (LBs)	22.0	22.0	27.6	34.2
	Packaged (LBs)	26.5	26.5	34.4	41.9
Loading Capacity	20'/40'/40'HQ	380 / 802 / 900	380 / 802 / 900	210 / 440 / 496	196 / 400 / 430



# Performance

## EXAMPLE CONFIGURATIONS AND PERFORMANCE DATA

WMMS-30CH-V2B(59)2				Cooling Performance Nominal Data			
Indoor Unit Combinations	Total Capacity	Zone A	Zone B	Zone C	Zone D	Capacity Rating-Btu/h (Min.-Max.)	Input Power Rating-Watts (Min./Max.)
9K	9K	10880				10880 (9180-12240)	1050 (1000-1300)
12K	12K	11900				11900 (9180-14960)	1050 (1000-1500)
18K	18K	17000				17000 (11220-22780)	1400 (1000-2600)
9+9K	18K	8500	8500			17000 (11220-22780)	1400 (1000-2600)
9+12K	21K	8500	11900			20400 (11220-26520)	1800 (1000-3300)
12+12K	24K	11900	11900			23800 (11220-27880)	2300 (1000-3800)
9+18K	27K	8840	15300			24140 (11220-32300)	2200 (1000-4600)
12+18K	30K	11900	12240			24140 (11220-32300)	2200 (1000-4600)

WMMS-30CH-V2B(59)2				Heating Performance Nominal Data			
Indoor Unit Combinations	Total Capacity	Zone A	Zone B	Zone C	Zone D	Capacity Rating-Btu/h (Min.-Max.)	Input Power Rating-Watts (Min./Max.)
9K	9K		9860			9860 (6630-15980)	1100 (850-2450)
12K	12K			13260		13260 (6800-17000)	1450 (850-2500)
18K	18K	19720				19720 (8670-27880)	1850 (900-2950)
9+9K	18K	10880	10880			21760 (8670-29240)	2050 (900-2950)
9+12K	21K	10880	13600			24480 (8670-30600)	2300 (900-3300)
12+12K	24K	13260	13260			26520 (10200-32640)	2400 (900-3500)
9+18K	27K	12240	17000			26860 (10200-31620)	2400 (900-3500)
12+18K	30K	12240	15300			27540 (10540-33660)	

WMMS-36CH-V2B(59)2				Cooling Performance Nominal Data			
Indoor Unit Combinations	Total Capacity	Zone A	Zone B	Zone C	Zone D	Capacity Rating-Btu/h (Min.-Max.)	Input Power Rating-Watts (Min./Max.)
9+9K	18K	8500	8500			17000 (11220-22780)	1400 (1000-2600)
9+12K	21K	8500	11900			20400 (11220-26520)	1800 (1000-3300)
12+12K	24K	11900	11900			23800 (11220-27880)	2300 (1000-3800)
9+18K	27K	8840	15300			24140 (11220-32300)	2200 (1000-4600)
12+18K	30K	11900	12240			24140 (11220-32300)	2200 (1000-4600)
9+9+9K	27K	8075	8075	8075		24140 (11220-32300)	2200 (1000-4600)
9+9+12K	30K	7140	7140	9860		24140 (11220-32300)	2200 (1000-4600)
9+12+12K	33K	6460	8840	8840		24140 (11220-32640)	2200 (1000-4650)
12+12+12K	36K	8075	8075	8075		24140 (11220-32640)	2200 (1000-4650)
9+9+18K	36K	7480	7480	9180		24140 (11220-32640)	2200 (1000-4650)
9+12+18K	39K	7140	7820	9180		24140 (11220-32640)	2200 (1000-4650)
12+12+18K	42K	7820	7820	8500		24140 (11220-32640)	2200 (1000-4650)

WMMS-36CH-V2B(59)2				Heating Performance Nominal Data			
Indoor Unit Combinations	Total Capacity	Zone A	Zone B	Zone C	Zone D	Capacity Rating-Btu/h (Min.-Max.)	Input Power Rating-Watts (Min./Max.)
9+9K	18K	10880	10880			21760 (8670-29240)	2050 (900-2950)
9+12K	21K	10880	13600			24480 (8670-30600)	2300 (900-3300)
12+12K	24K	13260	13260			26520 (10200-32640)	2400 (900-3500)
9+18K	27K	12240	17000			26860 (10200-31620)	2400 (900-3500)
12+18K	30K	12240	15300			27540 (10540-33660)	2600 (900-3800)
9+9+9K	27K	9632	9632	9632		28900 (10540-37400)	2600 (900-3800)
9+9+12K	30K	9010	9010	10880		28900 (10540-37400)	2600 (900-3800)
9+12+12K	33K	7820	10880	10880		29580 (10540-37400)	2600 (900-3800)
12+12+12K	36K	7990	9860	13600		29580 (10540-37400)	2400 (1000-3900)
9+9+18K	36K	9860	9860	9860		29580 (10540-37400)	2350 (1000-4000)
9+12+18K	39K	7480	9180	12920		29580 (10540-37400)	2350 (1000-4000)
12+12+18K	42K	8500	8500	12580		29580 (10540-37400)	2350 (1000-4000)

WMMS-42CH-V2B(59)2				Cooling Performance Nominal Data			
Indoor Unit Combinations	Total Capacity	Zone A	Zone B	Zone C	Zone D	Capacity Rating-Btu/h (Min.-Max.)	Input Power Rating-Watts (Min./Max.)
9+9K	18K	8500	8500			10880 (9180-12240)	1400 (1000-2600)
9+12K	21K	8500	11900			11900 (9180-14960)	1800 (1000-3300)
12+12K	24K	11900	11900			20400 (11220-26520)	2200 (1000-4600)
9+18K	27K	8840	15300			17000 (11220-22780)	2300 (1000-3800)
12+18K	30K	11900	12240			17000 (11220-22780)	2200 (1000-4600)
9+9+9K	27K	8044	8044	8044		23800 (11220-27880)	2200 (1000-4600)
9+9+12K	30K	7140	7140	9860		24140 (11220-32300)	2200 (1000-4600)
9+12+12K	33K	6460	8840	8840		24140 (11220-32300)	2200 (1000-4650)
12+12+12K	36K	8044	8044	8044		24140 (11220-32300)	2200 (1000-4650)
9+9+18K	36K	7480	7480	9180		24140 (11220-32300)	2200 (1000-4650)
9+12+18K	39K	7140	7820	9180		24140 (11220-32640)	2200 (1000-4650)
12+12+18K	42K	7820	7820	8500		24140 (11220-32640)	2200 (1000-4650)
9+9+9+9K	36K	6800	6800	6800	6800	24140 (11220-32640)	2480 (1000-4650)
9+9+9+12K	39K	8044	8044	8044	11900	24140 (11220-32640)	2480 (1000-4650)
9+9+12+12K	42K	8044	8044	11900	11900	24140 (11220-32640)	2480 (1000-4700)
9+12+12+12K	45K	8044	11900	11900	11900	24140 (11220-32640)	2480 (1000-4700)

WMMS-42CH-V2B(59)2				Heating Performance Nominal Data			
Indoor Unit Combinations	Total Capacity	Zone A	Zone B	Zone C	Zone D	Capacity Rating-Btu/h (Min.-Max.)	Input Power Rating-Watts (Min./Max.)
9+9K	18K	10880	10880			21760 (8670-27880)	21760 (8670-27880)
9+12K	21K	10880	13600			24480 (8670-28900)	2300 (900-3300)
12+12K	24K	13260	13260			27540 (10540-33660)	2400 (900-3500)
9+18K	27K	9860	17000			26520 (10200-31620)	2400 (900-3500)
12+18K	30K	12240	15300			26860 (10200-31620)	2400 (1000-3900)
9+9+9K	27K	9180	9180	9180		27540 (10540-33660)	2400 (1000-4000)
9+9+12K	30K	8500	8500	10540		27540 (10540-33660)	2400 (1000-4000)
9+12+12K	33K	7480	10370	10370		28220 (10540-33660)	2450 (1000-4000)
12+12+12K	36K	8500	7990	11560		27540 (10540-33660)	2400 (1000-4000)
9+9+18K	36K	9690	9690	9690		29070 (10540-33660)	2500 (1000-4000)
9+12+18K	39K	7480	9180	10880		27540 (10540-33660)	2400 (1000-4000)
12+12+18K	42K	8500	8500	10540		27540 (10540-33660)	2400 (1000-4000)
9+9+9+9K	36K	8160	8160	8160	8160	32640 (11220-37400)	2600 (1100-4200)
9+9+9+12K	39K	7480	7480	7480	10200	32640 (11220-37400)	2600 (1100-4200)
9+9+12+12K	42K	7140	7140	9180	9180	32640 (11220-37400)	2600 (1100-4200)
9+12+12+12K	45K	6120	8840	8840	8840	32640 (11220-37400)	2600 (1100-4200)

### Important Notes:

- One of the reasons YMGI's multiple zone systems have a higher energy efficiency than conventional central systems is our use of DC inverter technology.
  - The installing HVAC contractor will inspect the job site, collect all required information and will use commercially available heating/cooling load calculation software, such as Wrightsoft Manual J, to calculate each room's design heating load and design cooling load.
  - The installing HVAC contractor will select the unit model that meets the load requirements for each room. Keep in mind: HVAC equipment cooling capacity/efficiencies decrease as ambient temperatures rise, while its heating capacity/efficiencies decrease as ambient temperature drops. It may be necessary to select an additional heat source as back-up heating when it is very cold outside. This is because the heat pump may not be able to generate enough heat when the outside temperature drops to less than -4°F.
  - Divide all rooms into thermal zones. In each thermal zone, all indoor units will be working at standard capacity ratings most of the time.
  - Add up all the standard rating capacities of all indoor units in each thermal zone, and then find out the largest Zone Sub-total capacity.
  - Then use the Sub-total capacity found in step D to match outdoor unit model that has the closest stand rating capacity.

**Example 1:** A remodeling house project has 4 rooms A, B, C, D.

Zone1: A 17,200 Btu/h design load pick 18k indoor unit, B 10,400 Btu/h design load pick 12k indoor unit, Sub-total for zone 1=18k+12k=30k.

Zone 2: C 9,100 Btu/h design load pick 09k indoor unit, D 12,800 Btu/h design load pick 12k indoor unit, Sub-total for zone 2=9k+12k=21k.

30k>21k, so outdoor unit \*WMMS-48CH-V2B(59)2 is the best choice and \*WMMS-42CH-V2B(59)2 would be the alternate choice if pipes are less than 4x25"=100ft.

**Example 2:** If all indoor units must run at the same time and at rated capacities (Zones A,B,C,D are in one zone) 18k+12k+09k+12k = 51k, then \*WMMS-60CH-V2B(59)2 should be selected. All indoor units must operate in the same thermal mode. You cannot run one unit in cooling mode and heating mode in the other units. This will result in a mode conflict and an error code E7 will be displayed.

(\*Refer to the above chart for model numbers)

# Engineered Comfort

Products for a Sustainable & Green World

## ACCESSORIES

- BRACKETS (FOR OUTDOOR UNIT)
- FOOT RISERS (FOR OUTDOOR UNIT)
- COPPER/WIRE/ACC.SET (ACC. KIT)
- LINESET COVERS
- WIND BAFFLE
- BRIDGE CONTROLLER
- “U-TOUCH” REMOTE CONTROL
- REMOTE CONTROL LOCK
- THERMOSTAT
- ADVANCED FILTER KIT
  - HEPA/Enzyme/
  - Cold Catalyst Filter
  - Anion Generator



## APPLICATIONS:

- HOMES
- SUNROOMS
- LIBRARIES
- HOTELS
- CONDOS
- RESORTS
- GALLERIES
- NURSING HOMES
- APARTMENTS
- OFFICES
- RESTAURANTS
- MOBILE HOMES



## FEATURES:

- DC INVERTER
- ADAPTIVE SMART CONTROL
- HIGH EFFICIENCY
- QUICK COOLING AND HEATING
- INDEPENDENT DEHUMIDIFICATION
- INTELLIGENT DEFROSTING
- QUIET OPERATION
- SOFT START
- LOW VOLTAGE START
- STABLE OPERATION AT LOW FREQUENCY
- RANDOM PITCH CROSS-FLOW FAN WHEEL
- WIDE ANGLE AIR DISTRIBUTION
- LONG AIR THROW
- WASHABLE FILTER
- AUTO DRYING & CLEANING
- DRY ANTI-MOLD COIL
- REMOTE CONTROL
- 24-HOUR TIMER
- MEMORY & AUTO RESTART
- PRE-HEATING PRIOR TO HEATING START
- OVERCORRECT & THERMAL PROTECTION
- SLEEP MODE
- ENHANCED COPPER/COIL
- PRE-CHARGED
- LIGHT UP DIGITAL DISPLAY
- EASY OPERATION
- EASY DIAGNOSIS & TROUBLE-SHOOTING
- THOROUGHLY TESTED
- RELIABLE QUALITY

# THE YMGI ADVANTAGE

## Ease of Installation

The hook-up between the mini split outdoor and indoor units normally only requires a three-inch hole for the conduit that contains the drain hose, wiring, and refrigeration pipes.

Mini split outdoor units can be located up to 150 feet from the indoor units, making it possible to place the outdoor condensing unit where it can't be seen.

The mini split outdoor condensing units are designed to be installed anywhere a central air conditioner or heat pump can, with the added flexibility of being able to be installed on a wall, placed on a balcony, below a deck, inside a garage, and many more places where a conventional air conditioner would be impossible to fit.

Professionally trained YMGI certified technicians can properly install your mini split, ensuring your system provides you with a lifetime of worry-free comfort.



## Technical Support

YMGI offers full technical support for all of our heating and cooling systems. If you have any questions about the operation of your unit, please consult your owner's manual. It will help you understand unit operation, various functions, and proper operation and maintenance of your system.

If your HVAC technician has any questions about installation or service, we provide technical assistance at **866-833-3138 ext. 703**.



## Customer Service

When you or your technician calls YMGI hotlines, you will always talk to a live person. Customer service and our commitment to quality are the most important parts of our business. We value each and every customer, and our goal is to exceed your expectations.

**YMGI Group**  
601 Arrow Ln  
O'Fallon, Missouri 63366  
Phone: 1-866-833-3138  
Fax: 1-866-377-3355

**Sales:**  
[sales@ymgigroup.com](mailto:sales@ymgigroup.com)

**Technical Support:**  
[techsp@ymgigroup.com](mailto:techsp@ymgigroup.com)

**Service & Warranty:**  
[customerservice@ymgigroup.com](mailto:customerservice@ymgigroup.com)





## Warranty Overview

If you aren't satisfied, neither are we. Proper installation matters greatly to the performance and lifespan of your system. Having your system installed by a qualified HVAC installer is the first step.

If for any reason you do not receive a prompt response, you can call our 24 hour 7 days a week toll free number at 1-866-833-3138 ext.704 or email us at [customerservice@ymgigroup.com](mailto:customerservice@ymgigroup.com).

To expedite service, please include a copy of your purchase invoice number, contractor installation invoice, unit model number and serial number, a full description of your problem, along with any photos or information that will help us resolve your issue as quickly as possible.

## Credentials & Certification

All YMGI systems are ETL listed in both the U.S. and Canada. They are also certified by the AHRI and ENERGY STAR® to exceed current energy efficiency world standards.

## Tax Credits

When purchasing your YMGI Solo Series DC Inverter high efficiency system, don't forget to take advantage of the many available federal tax credits. Many states and utility companies also offer tax incentives and rebates. Check your electric company's website, or go to [ymgigroup.com](http://ymgigroup.com) to see what incentives are available in your area.

## ACCESSORIES

- REMOTE CONTROL
- THERMOSTAT
- BRACKETS (FOR OUTDOOR UNIT)
- FOOT RISERS (FOR OUTDOOR UNIT)
- COPPER/WIRE/ACC.SET (ACC. KIT)
- LINESET COVERS
- WINTER WIND BAFFLE
- BRIDGE CONTROLLER
- ADVANCED FILTER OPTIONS
  - HEPA/Enzyme/
  - Cold Catalyst Filter
  - Anion Generator

## Quality & More

### Thoroughly Tested

Each YMGI system is factory tested and are packaged and shipped only after all safety, operational functions, features and cosmetic details have passed inspection. Our strict quality control tests follow some the highest standards in the industry.

### Reliable Quality

YMGI products are designed using the latest technology and always keep the end user in mind. Using the highest quality parts, each YMGI unit is built to last. Best of all, every YMGI system is backed by our professional technical support.

## ENERGY STAR®

The Energy Star® label guarantees a product meets or exceeds the guidelines of the ENERGY STAR® program.

ENERGY STAR® is the trusted, symbol for energy efficiency.

The ENERGY STAR label was

established to encourage consumers to identify and select energy-efficient products that offer savings on energy bills without sacrificing performance, features, or comfort.

Our DC INVERTER systems, along with many other YMGI products, are ENERGY STAR® qualified.





YMGI is dedicated to designing, manufacturing and distributing the highest quality, energy saving and environmentally friendly air conditioner and heat pump products, while providing the best service and support possible, to all of our customers. Our mission is to help build a sustainable, efficient and green world.

### YMGI Symphony-Ductless & Ducted Heat Pump & Heat Recovery:

- **Symphony SOLAR DC Inverter**  
(56) Single PV, (79) Single PH 12-18K Btu/h  
(86) Single Zone All DC 09-24K Btu/h  
(55) Multi Zone Solar VRF 3, 4, 8, 16, and 24 Ton.
- **Symphony SOLO DC Inverter**  
(57)2,3 Single Zone 16 SEER, 09-36K Btu/h  
(58)4, (78)1-Single Zone 18-23 SEER, 09-36K Btu/h
- **Symphony CHOIR DC Inverter**  
(46)2 DC Inverter Multiple Zone 15 SEER, 2x09K and 2x12K Btu/h  
(59)2S-DC Inverter Multiple Zone 16 SEER 6x09K to 9x09K Btu/h (59)4-DC Inverter Multiple Zone 21 SEER 2x09K to 5x12K Btu/h
- **Symphony VRF - DC Inverter HP, Heat Recovery, and Solar. Up to 64 zones.**
- **Symphony HARMONY-Packaged Self-Contained 42"x16"**  
PTAC/PTHP Electric Heater or Hot Water Coil, and VPAK
- **Symphony CONDUCTOR-Split Type Condensing Units Side Discharge VRUO & VRFO**

#### YMGI Group

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